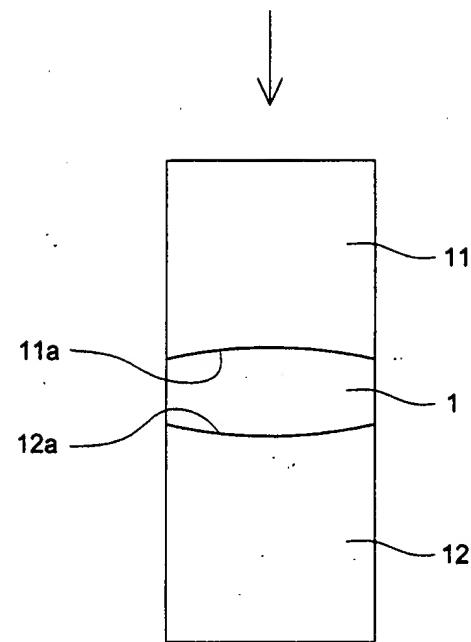


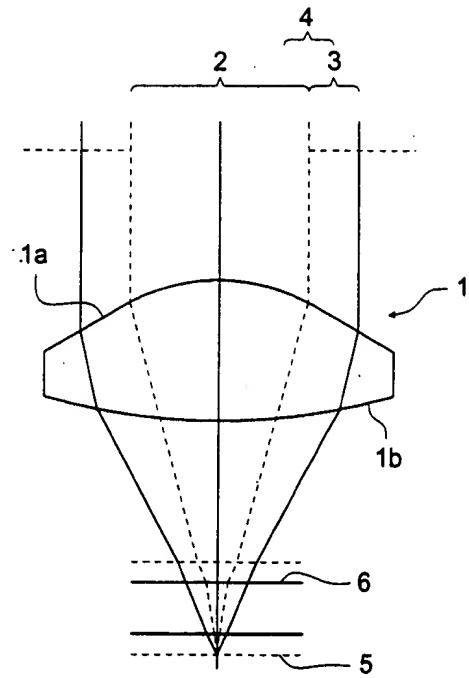
FIG. 1



09670839-092800

FIG. 2

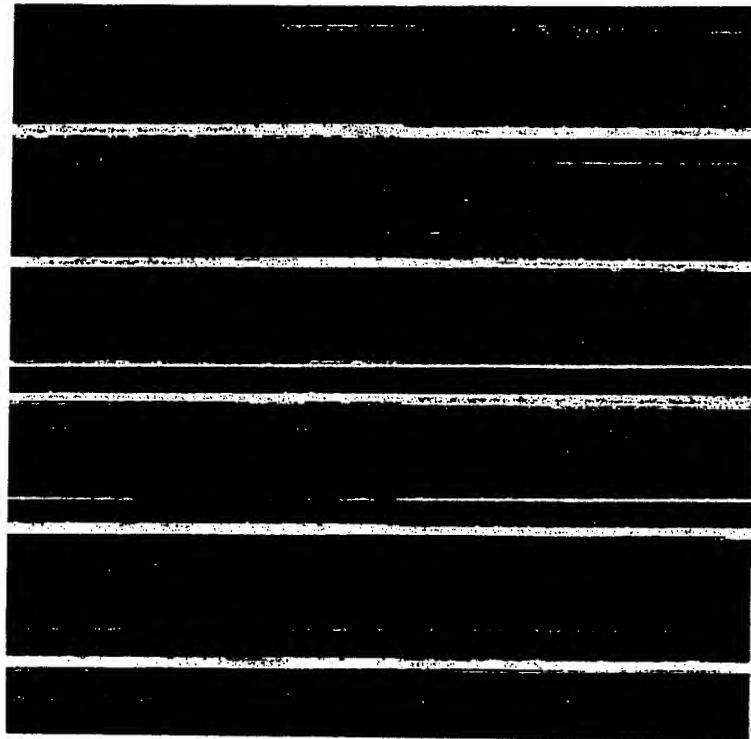
008260-5807060



002260 " 62202950

FIG. 3

$1 \mu\text{m}$

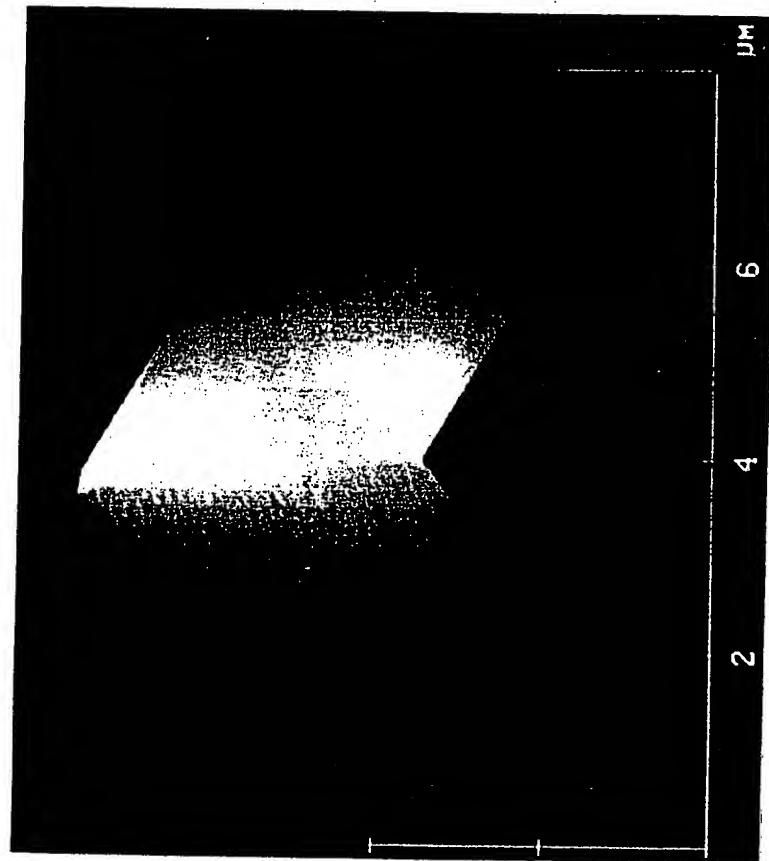


Cut new mold material after 3 km length cutting

008260" 65892960

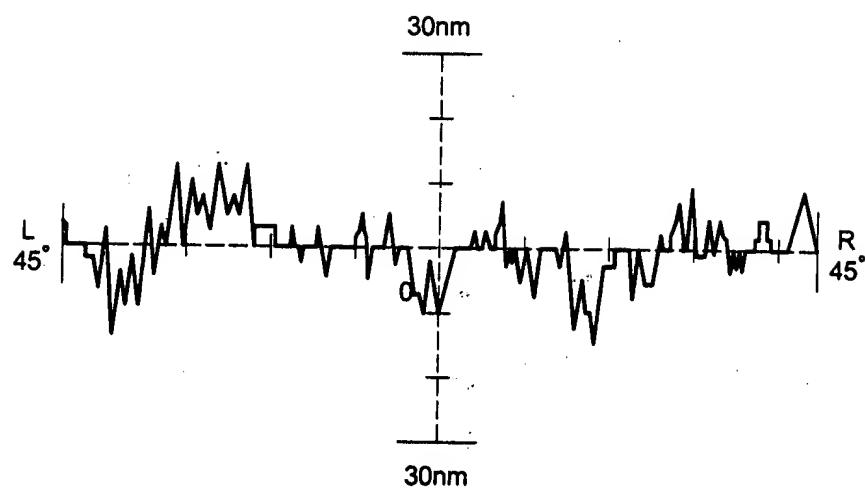
$1 \mu\text{m}$

FIG. 4



Diamond tool cutting edge after 3 km length new mold material cutting

FIG. 5



00028260-008337-0000

00000000000000000000000000000000

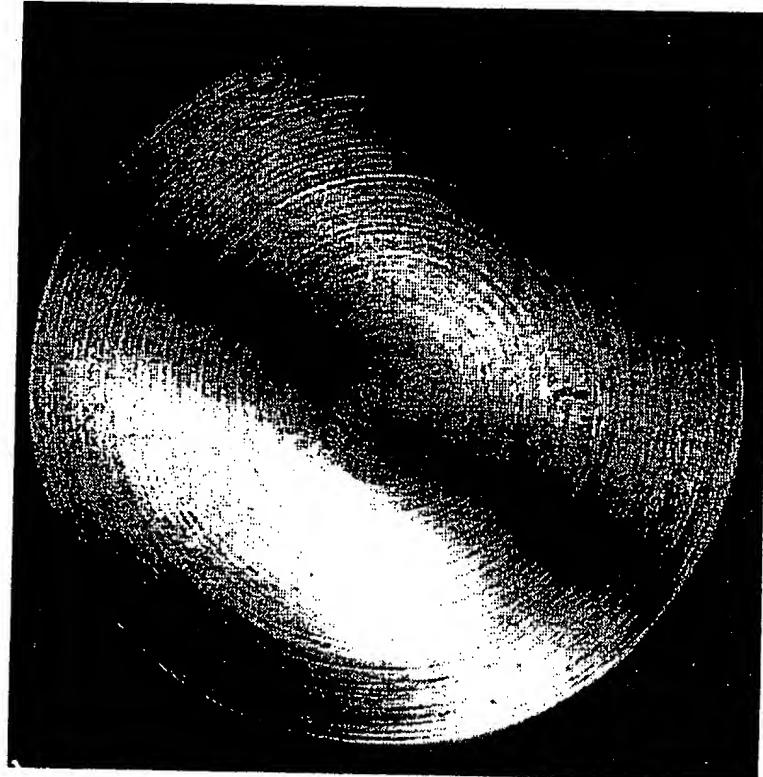
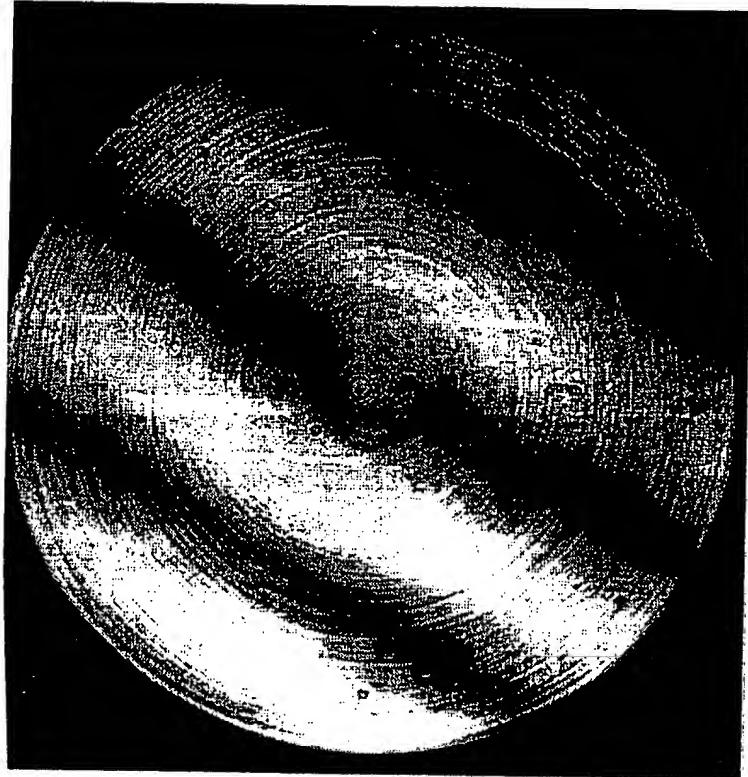


FIG. 6

Interferogram of cut Aluminum sphere
by new diamond turning machine

008260 " 65302950

FIG. 7



Interferogram of cut Al sphere after 6 hours
by new diamond turning machine

FIG. 8

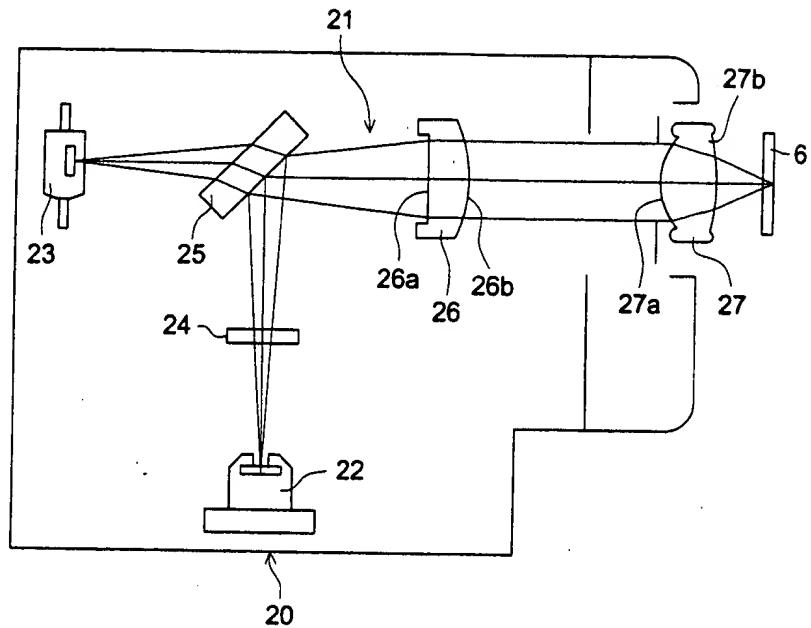


FIG. 9

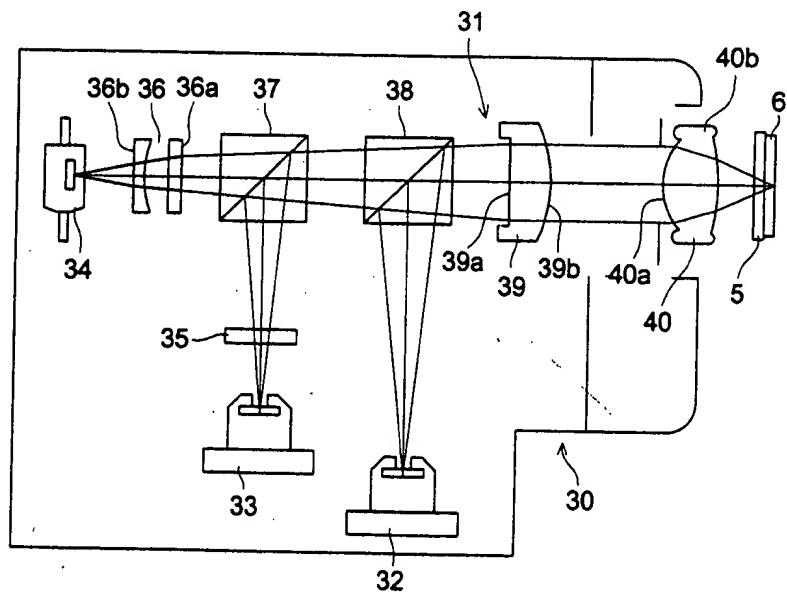
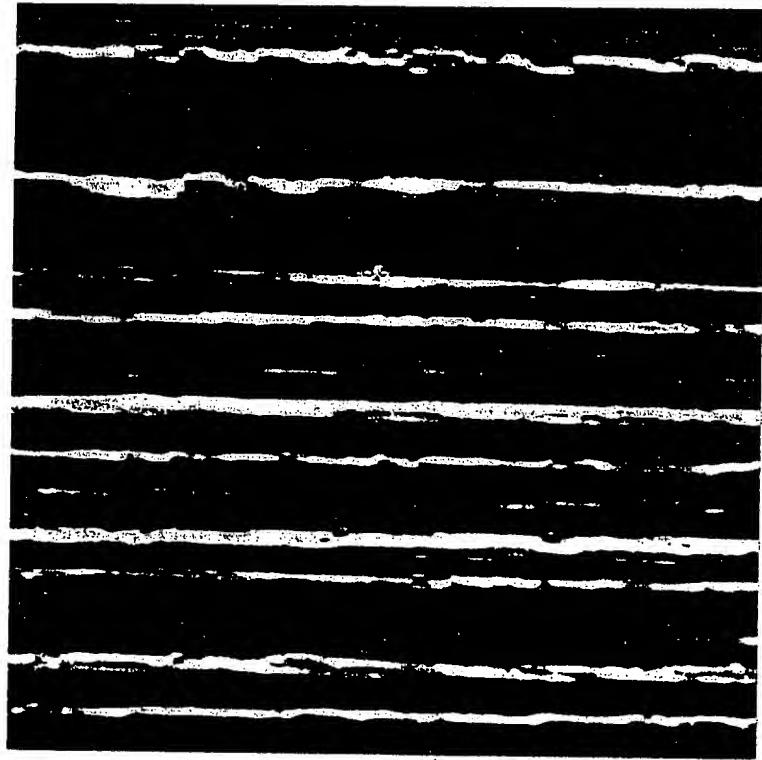


FIG. 10 360° SEE 302950

1 μ m

FIG. 10



Cut ENP surface after 3 km length cutting

1 μ m

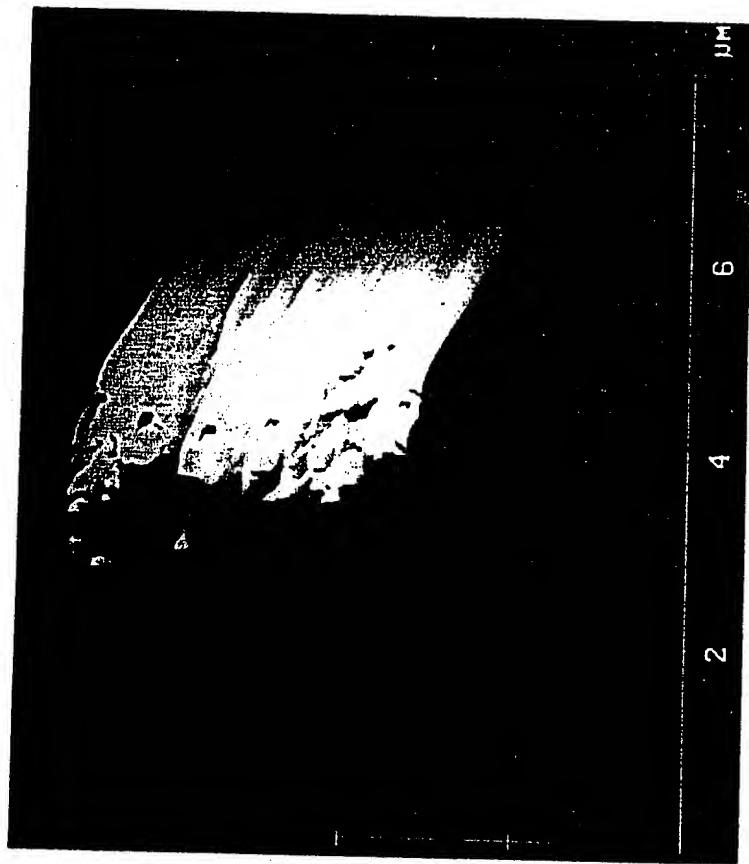


FIG. 11

00260 " 5202960

FIG. 12

00026255-00000000

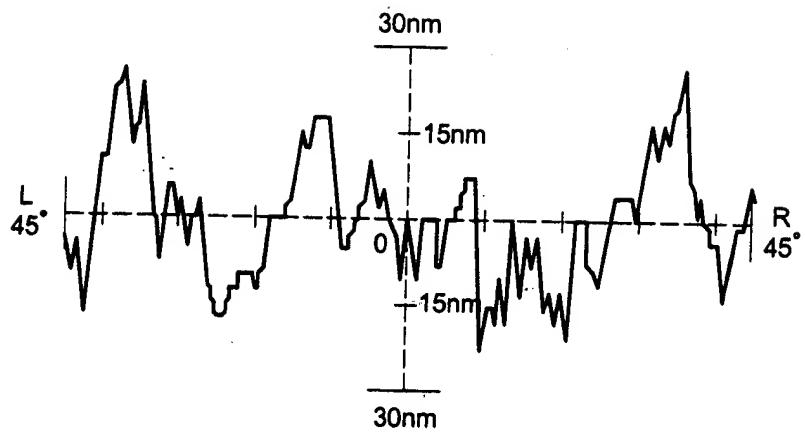
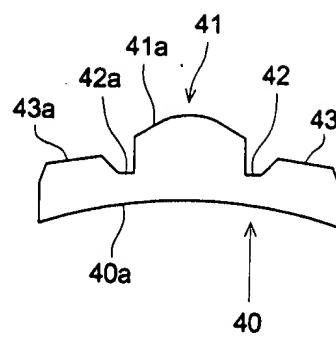


FIG. 13



00870885-000000